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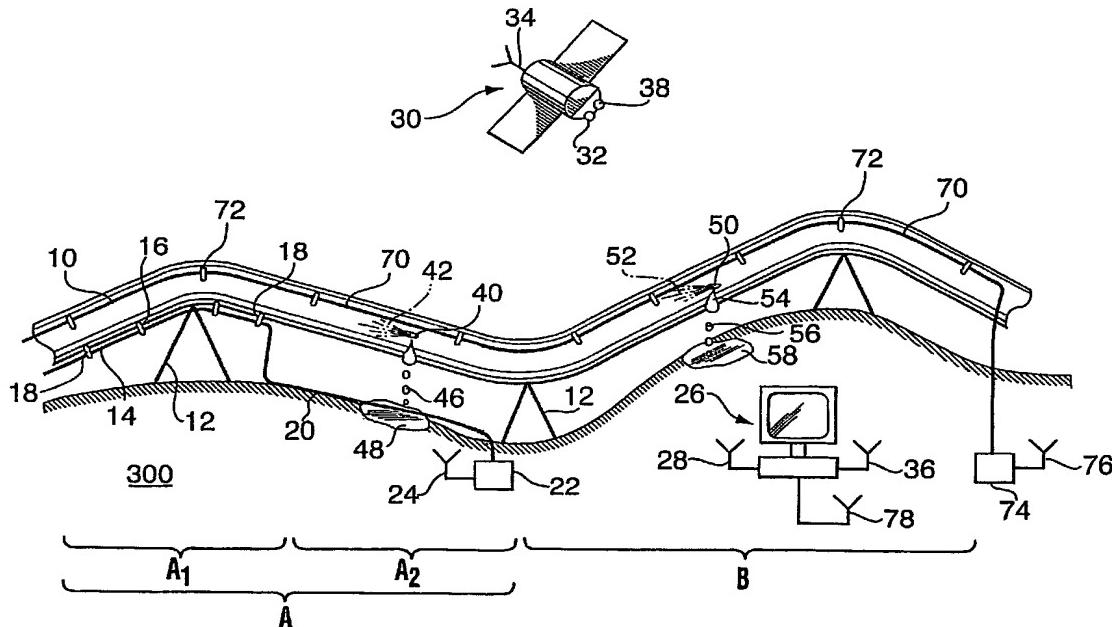
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[Continued on next page]

(54) Title: PIPELINE MONITORING SYSTEM



(57) Abstract: Process and apparatus for sensing possible leaks in a pipeline. The pipeline is monitored continuously by acoustic monitoring means, and acoustic events indicating a possible leak are noted. The pipeline is also equipped with temperature monitoring means, and is monitored for temperature either continuously, periodically or on demand. A leak is deemed probable at any location where there is an acoustic event indicating a possible leak, and at approximately the same time, a temperature difference greater than a pre-chosen amount between that location and adjacent locations



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